

Patent Abstracts of Japan

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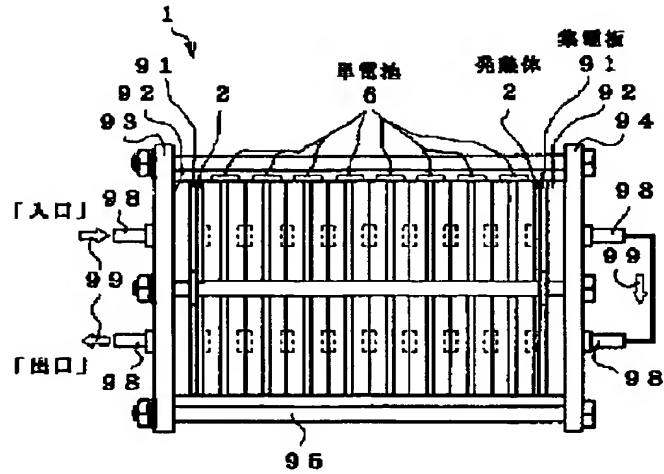
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TITLE : SOLID HIGH POLYMER  
ELECTROLYTE FUEL CELL



ABSTRACT : PURPOSE: To provide a solid high polymer electrolyte fuel cell by which the temperature distribution in the layering direction of a unit fuel cell can be easily uniformized.

CONSTITUTION: In a solid high polymer electrolyte fuel cell (a stack) 1, thin plate like heating elements 2 where an electric current outputted from the stack 1 is flowed in its thickness direction, are sandwiched and inserted between respective current collecting plates 91 and cells 6 adjacent to these current collecting plates 91. The heating elements 2 are obtained by forming a thin plate of an electric heating alloy material having a volume resistivity value of about 1.0 to 1.5 $\mu\Omega$  in the area equal to an area directional dimension possessed by a fuel electrode and an oxidizing agent electrode provided in the cells 6. A thickness of the heating elements 2 is determined so that a value of Joule heat generated in the heating elements 2 by an electric current outputted from the stack 1 becomes a value corresponding to a quantity of heat diffused from an end part of the layering direction of the stack 1.

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